

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021119\
 Data File : VF061592.D
 Acq On : 11 Feb 2019 18:07
 Operator : VA/AP
 Sample : K1459-07
 Misc : 6.01g/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Feb 12 03:27:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	199272	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.58	114	367763	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.75	117	321485	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.54	152	165794	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	119566	48.60	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	97.20%	
35) Dibromofluoromethane	4.09	113	135533	46.70	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	93.40%	
50) Toluene-d8	7.54	98	295476	37.16	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	74.32%	
62) 4-Bromofluorobenzene	11.39	95	154416	41.57	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	83.14%	

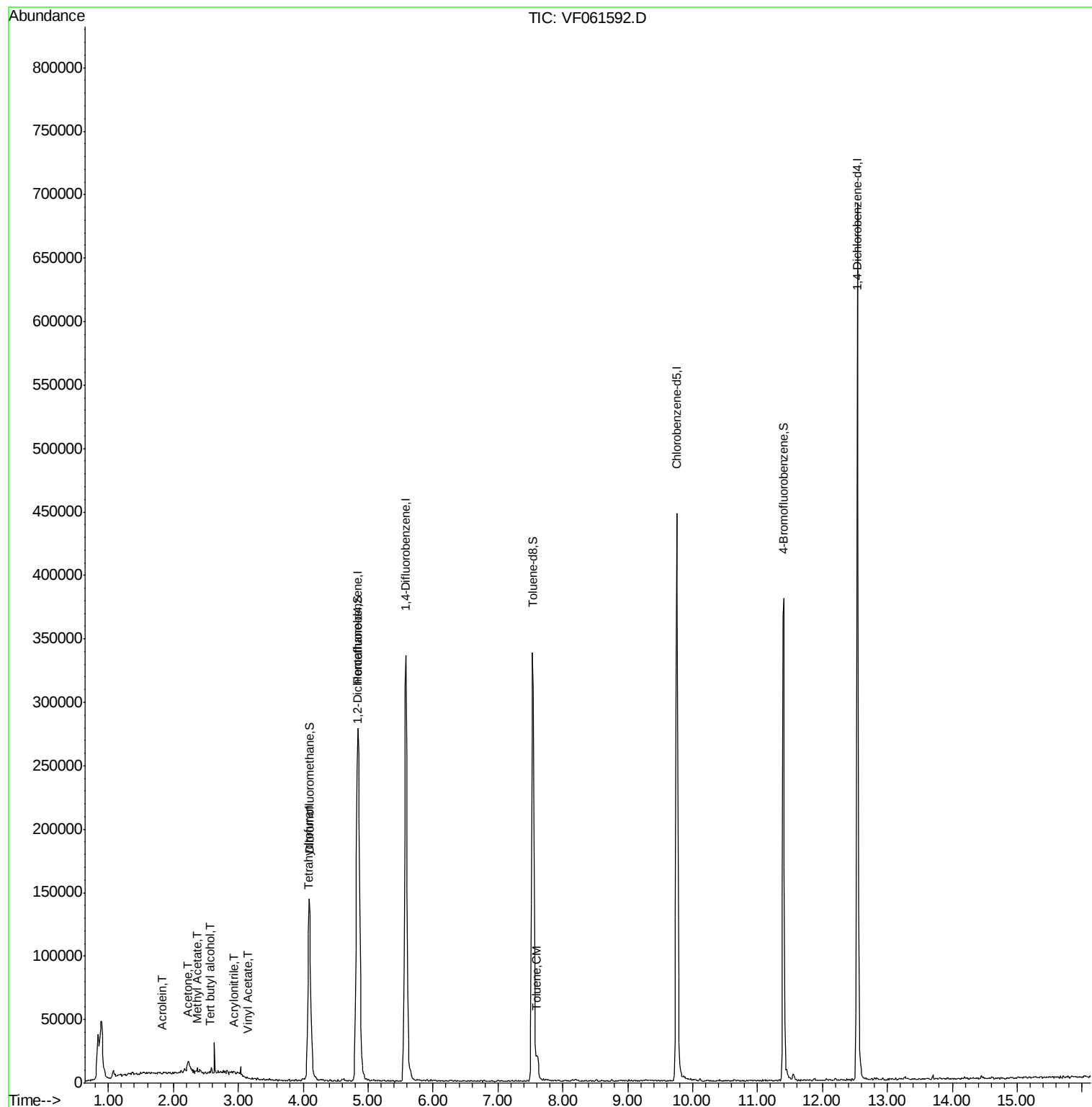
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	315	3.025	ug/l #	64
13) Acrolein	1.82	56	385	14.452	ug/l	85
14) Allyl chloride	2.06	41	362	Below Cal	#	53
15) Acrylonitrile	2.93	53	368	1.380	ug/l #	20
16) Acetone	2.23	43	15056	30.505	ug/l	93
18) Methyl Acetate	2.37	43	1708	1.745	ug/l #	61
20) Methylene Chloride	2.17	84	1016	Below Cal	#	44
23) Vinyl Acetate	3.16	43	392	3.333	ug/l #	78
29) Tetrahydrofuran	4.07	42	885	2.504	ug/l #	49
52) Toluene	7.60	92	9832	1.574	ug/l	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF061592.D

Acq: 11 Feb 2019 18:07

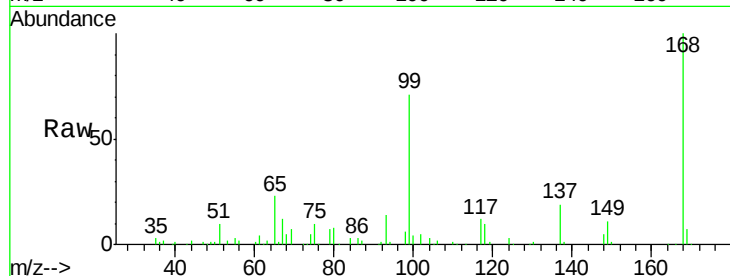
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 199272

Ion Ratio Lower Upper

168 100

99 71.4 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

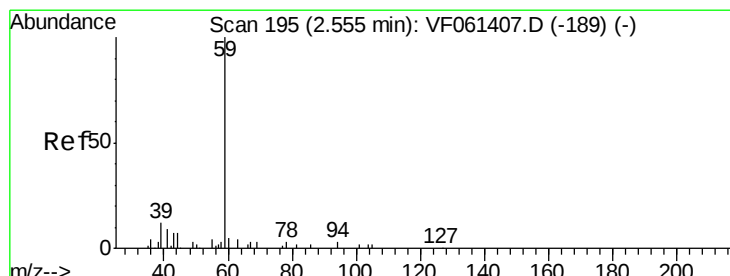
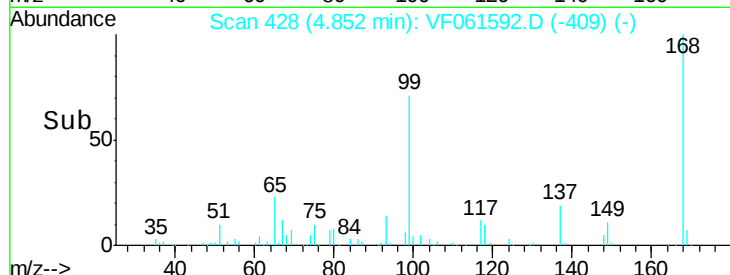
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.025 ug/l

RT: 2.56 min Scan# 196

Delta R.T. 0.01 min

Lab File: VF061592.D

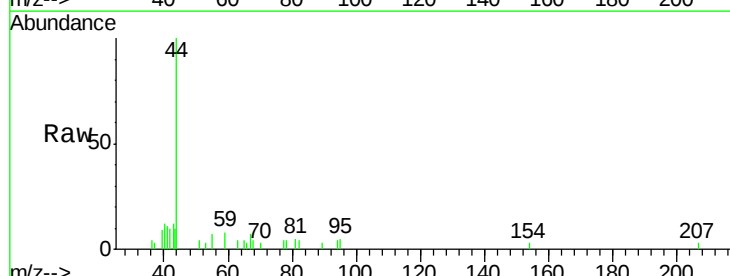
Acq: 11 Feb 2019 18:07

Tgt Ion: 59 Resp: 315

Ion Ratio Lower Upper

59 100

57 0.0 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.56

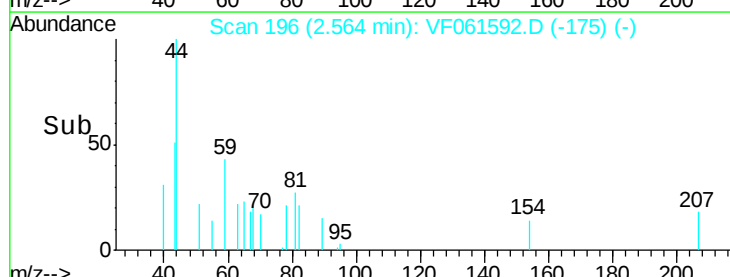
300

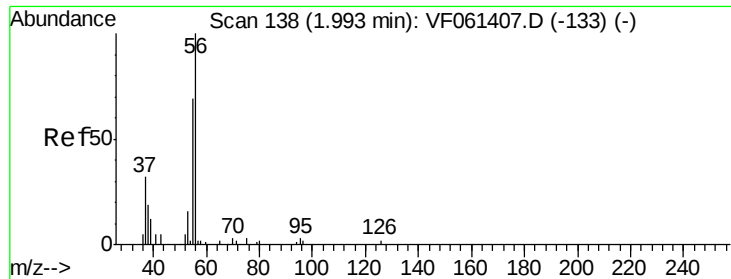
200

100

0

Time-->





#13

Acrolein

Concen: 14.452 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.17 min

Lab File: VF061592.D

Acq: 11 Feb 2019 18:07

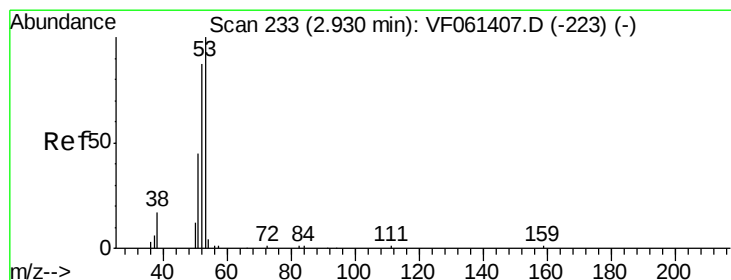
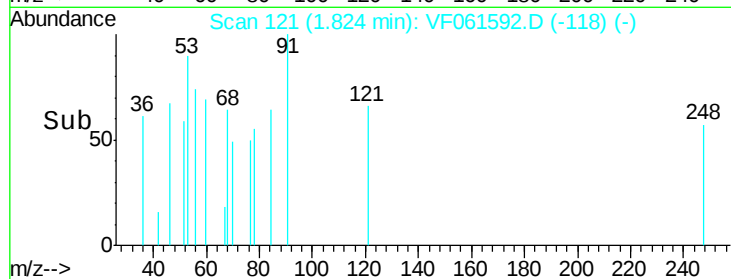
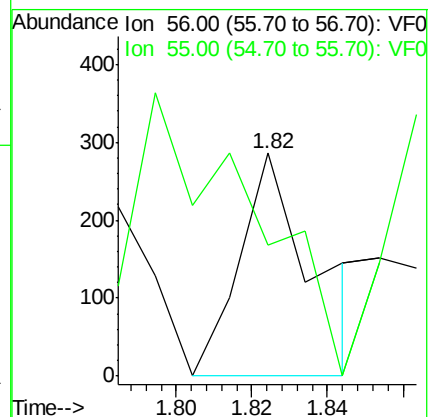
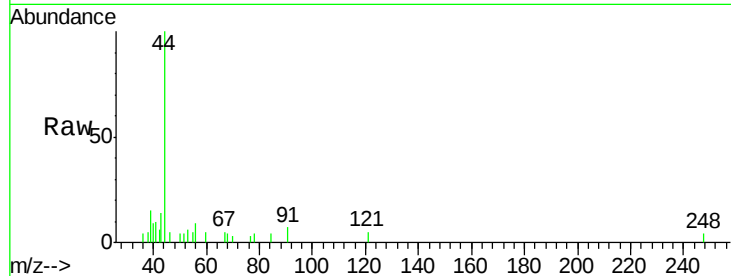
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 385

Ion Ratio Lower Upper

56 100

55 59.1 57.5 86.3



#15

Acrylonitrile

Concen: 1.380 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.00 min

Lab File: VF061592.D

Acq: 11 Feb 2019 18:07

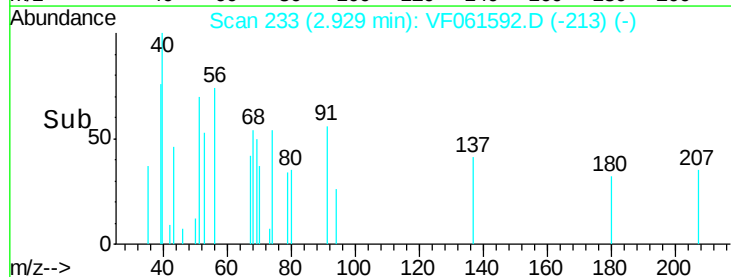
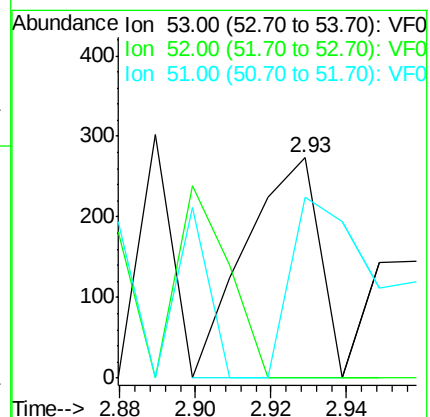
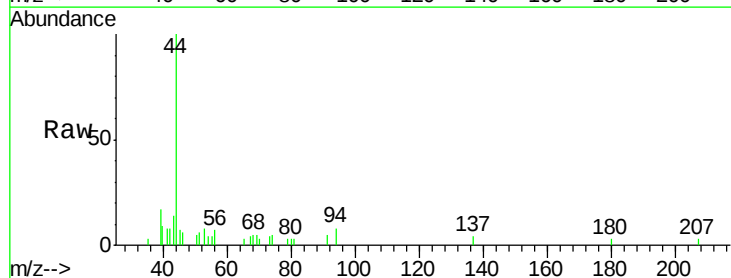
Tgt Ion: 53 Resp: 368

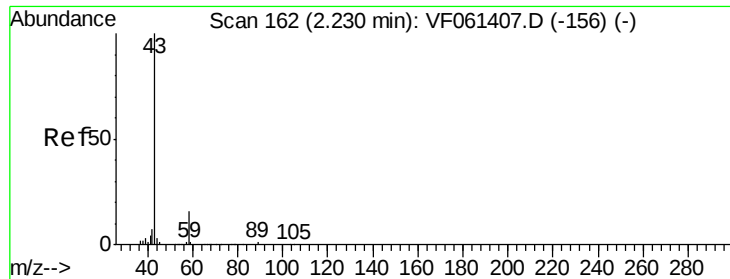
Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

51 82.1 36.8 55.2#





#16

Acetone

Concen: 30.505 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.00 min

Lab File: VF061592.D

Acq: 11 Feb 2019 18:07

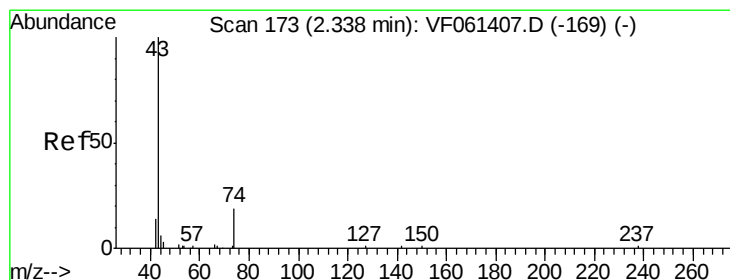
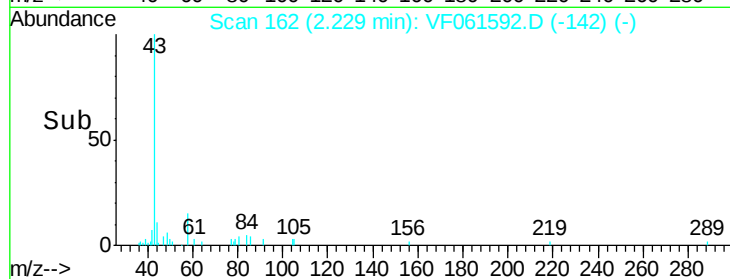
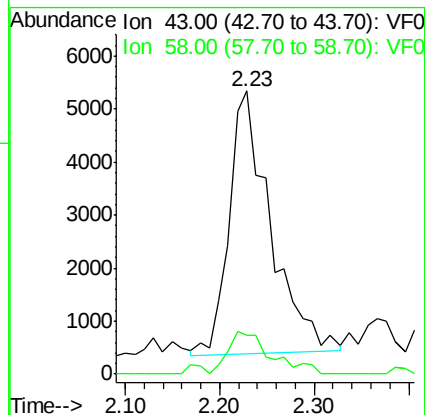
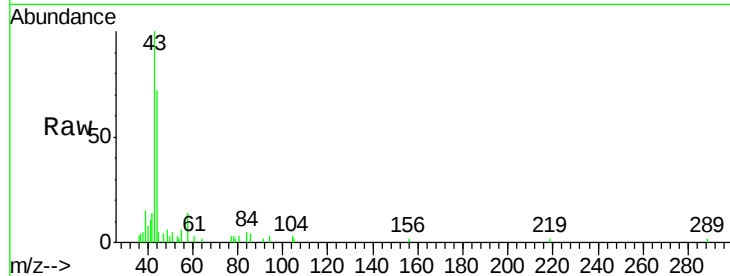
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 15056

Ion Ratio Lower Upper

43 100

58 13.6 13.3 19.9



#18

Methyl Acetate

Concen: 1.745 ug/l

RT: 2.37 min Scan# 176

Delta R.T. 0.03 min

Lab File: VF061592.D

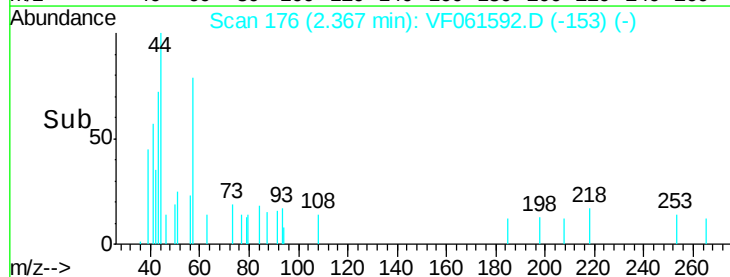
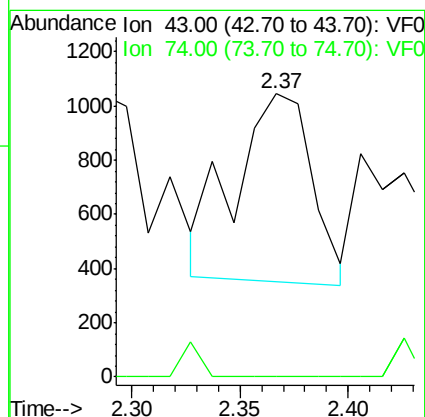
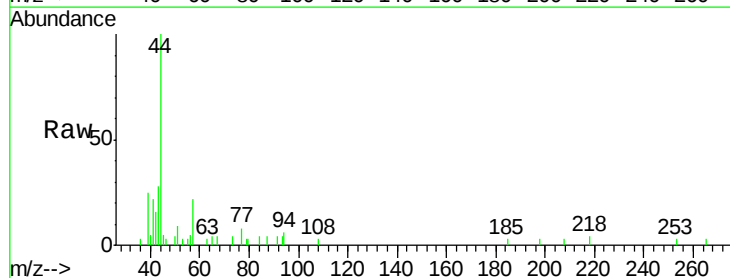
Acq: 11 Feb 2019 18:07

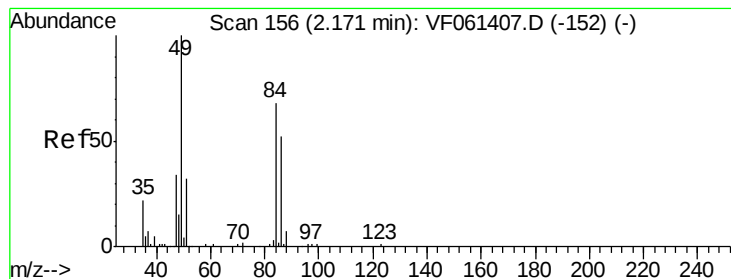
Tgt Ion: 43 Resp: 1708

Ion Ratio Lower Upper

43 100

74 0.0 13.4 20.0#





#20

Methvlene Chloride

Concen: Below Cal

RT: 2.17 min Scan# 156

Delta R.T. -0.00 min

Lab File: VF061592.D

Acq: 11 Feb 2019 18:07

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 84 Resp: 1016

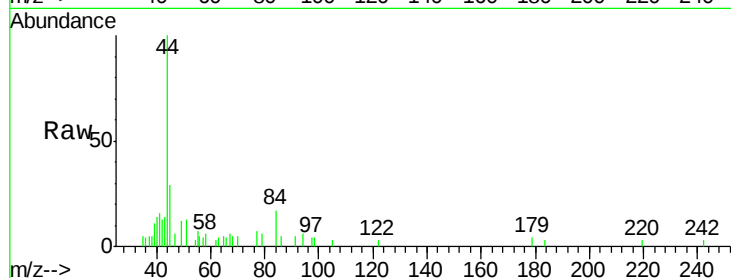
Ion Ratio Lower Upper

84 100

49 72.3 120.0 180.0#

51 76.5 38.6 58.0#

86 29.0 61.0 91.6#

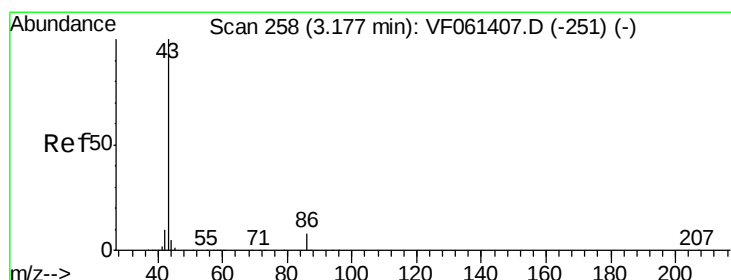
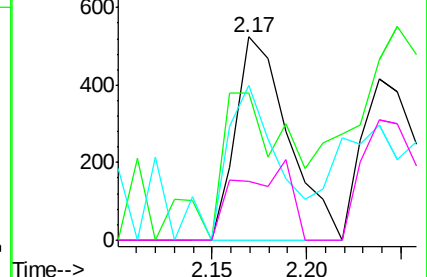
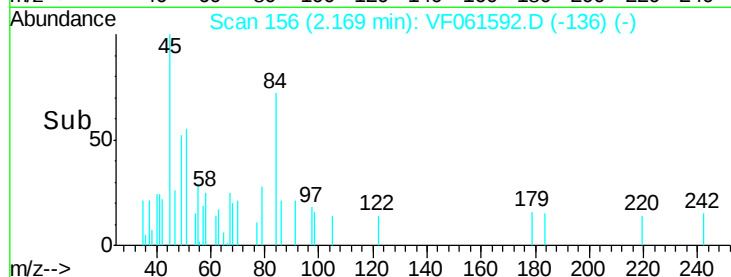


Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#23

Vinyl Acetate

Concen: 3.333 ug/l

RT: 3.16 min Scan# 256

Delta R.T. -0.02 min

Lab File: VF061592.D

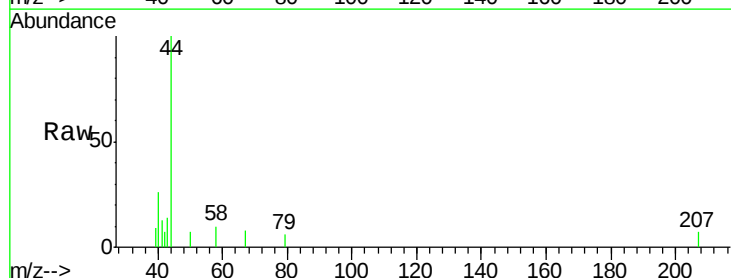
Acq: 11 Feb 2019 18:07

Tgt Ion: 43 Resp: 392

Ion Ratio Lower Upper

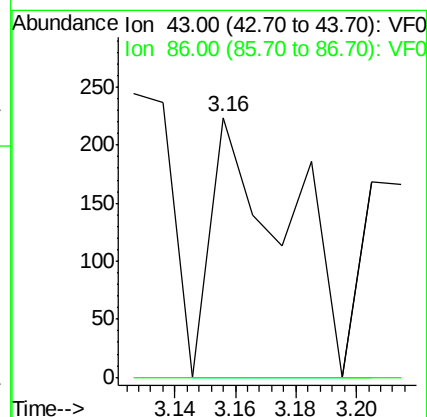
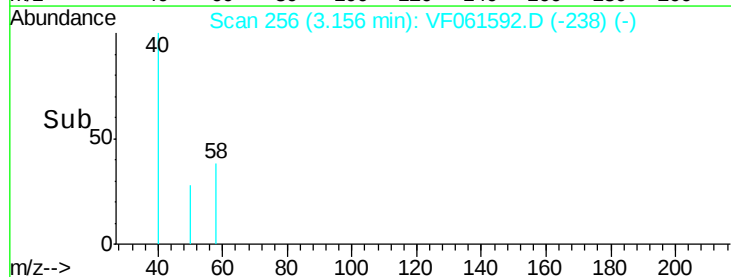
43 100

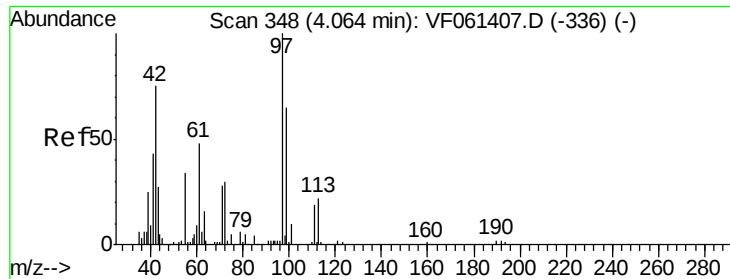
86 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#29

Tetrahydrofuran

Concen: 2.504 ug/l

RT: 4.07 min Scan# 349

Delta R.T. 0.01 min

Lab File: VF061592.D

Acq: 11 Feb 2019 18:07

Instrument :

MSVOA_F

ClientSampled :

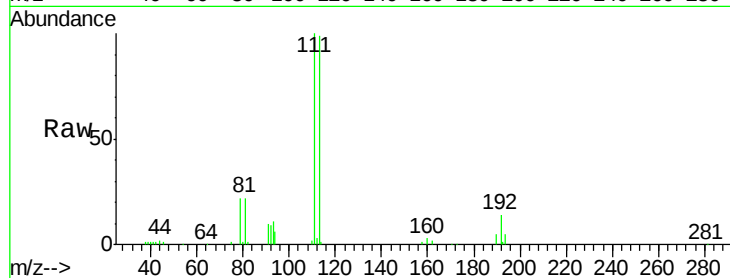
Tot Ion: 42 Resp: 885

Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

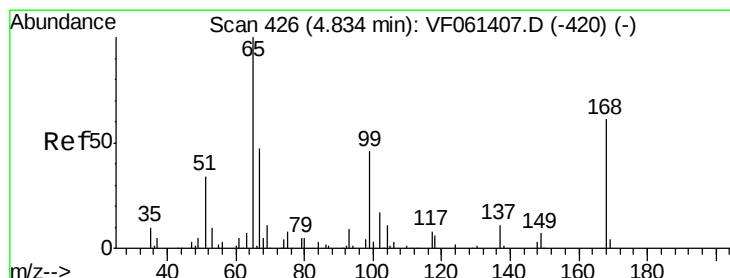
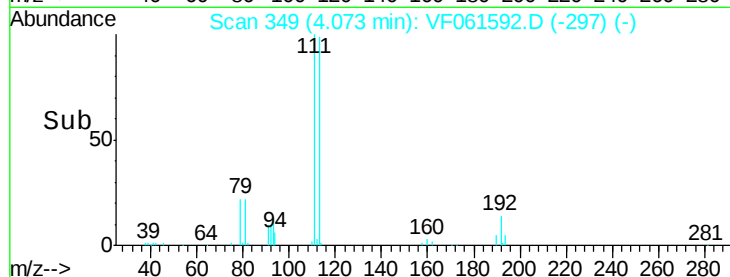
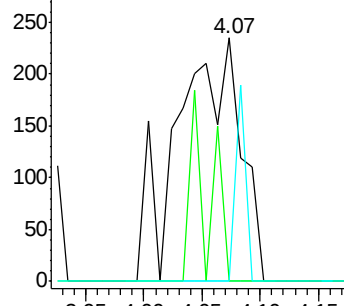
71 12.7 29.6 44.4#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 48.599 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.01 min

Lab File: VF061592.D

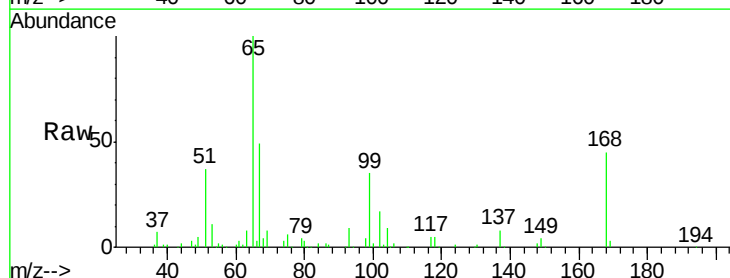
Acq: 11 Feb 2019 18:07

Tgt Ion: 65 Resp: 119566

Ion Ratio Lower Upper

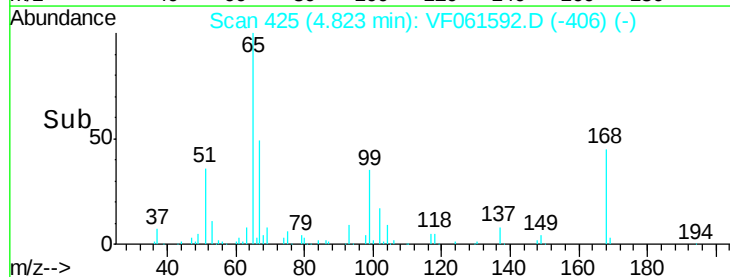
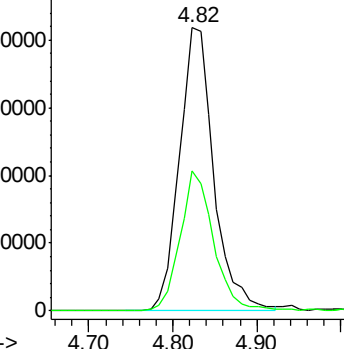
65 100

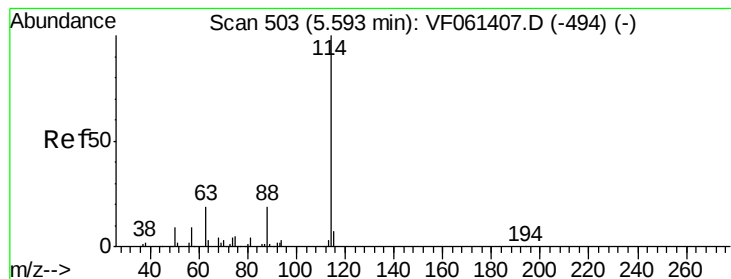
67 49.5 0.0 99.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF061592.D

Acq: 11 Feb 2019 18:07

Instrument :

MSVOA_F

ClientSampleId :

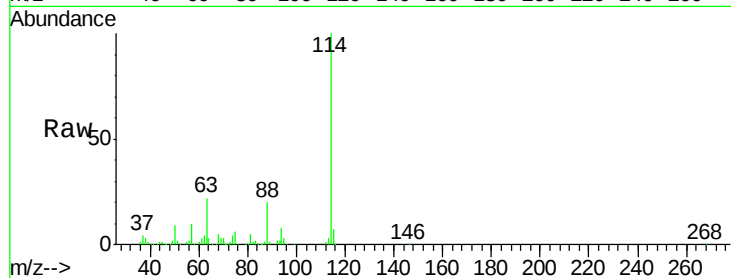
Tot Ion:114 Resp: 367763

Ion Ratio Lower Upper

114 100

63 21.8 0.0 39.0

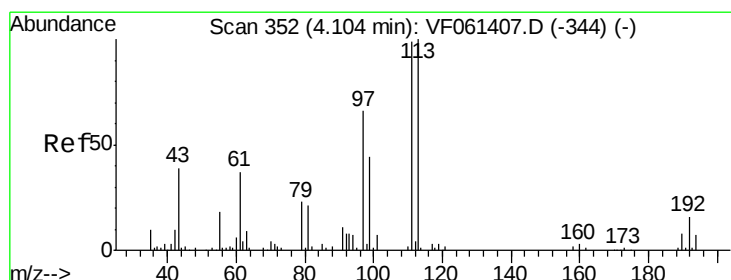
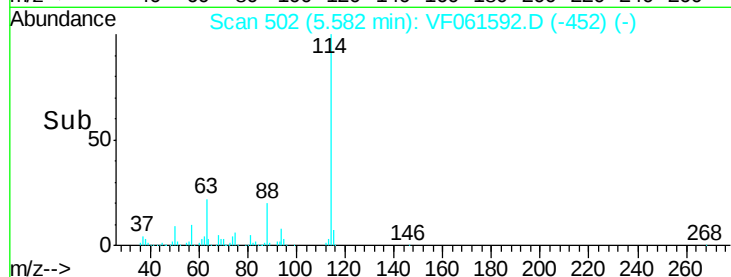
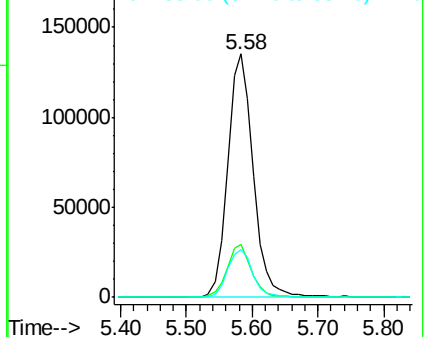
88 19.7 0.0 37.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 46.704 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.01 min

Lab File: VF061592.D

Acq: 11 Feb 2019 18:07

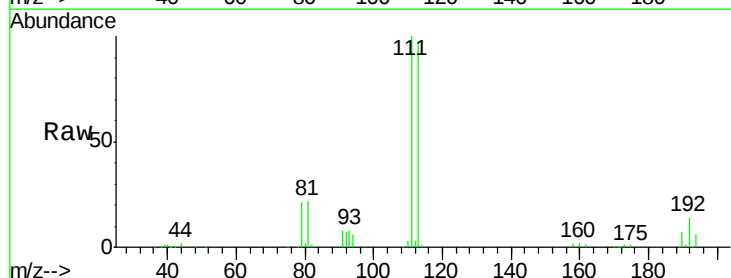
Tgt Ion:113 Resp: 135533

Ion Ratio Lower Upper

113 100

111 102.9 79.4 119.0

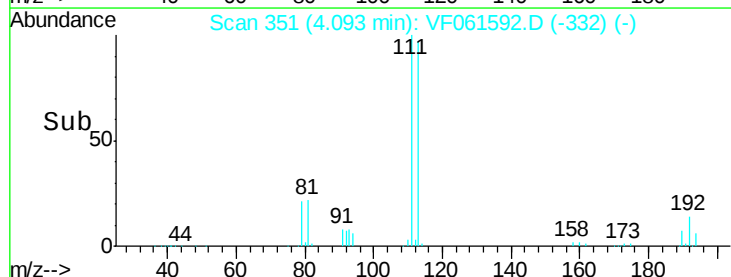
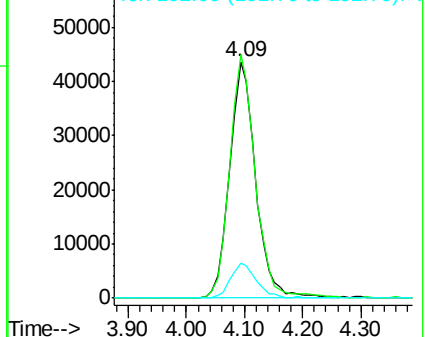
192 14.6 12.4 18.6

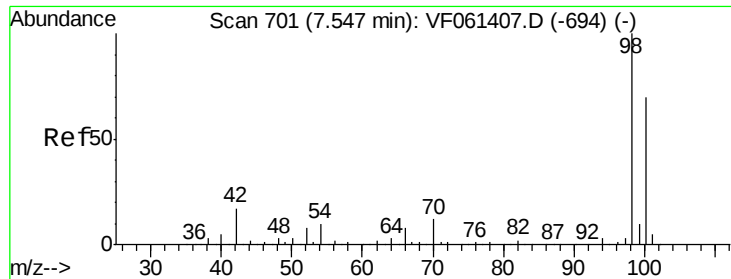


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

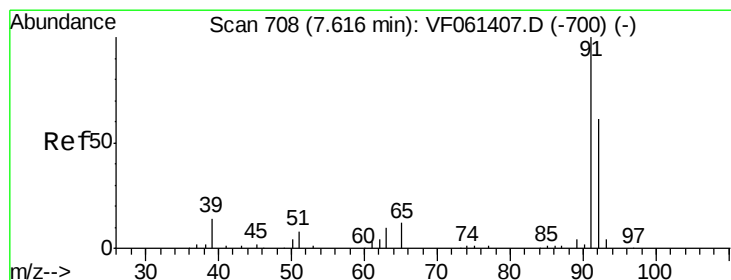
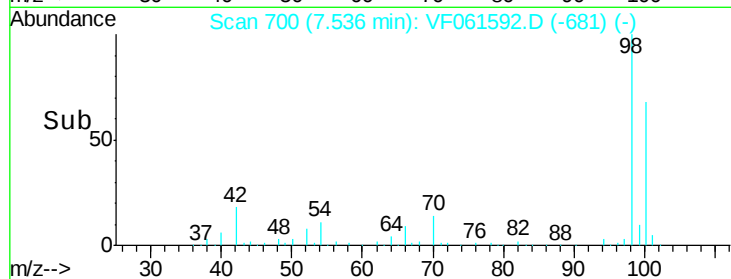
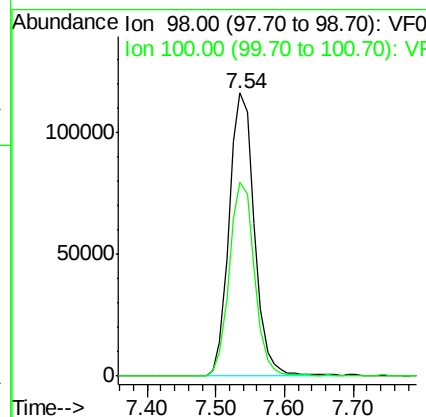
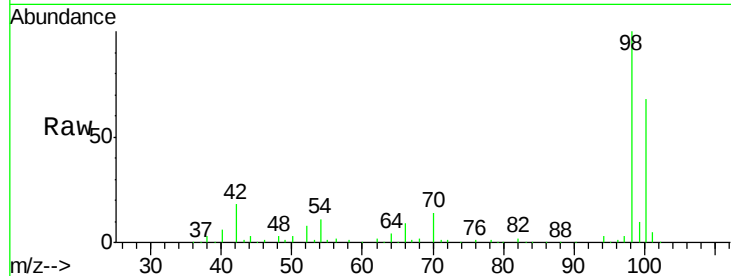




#50
Toluene-d8
Concen: 37.163 ug/l
RT: 7.54 min Scan# 700
Delta R.T. -0.01 min
Lab File: VF061592.D
Acq: 11 Feb 2019 18:07

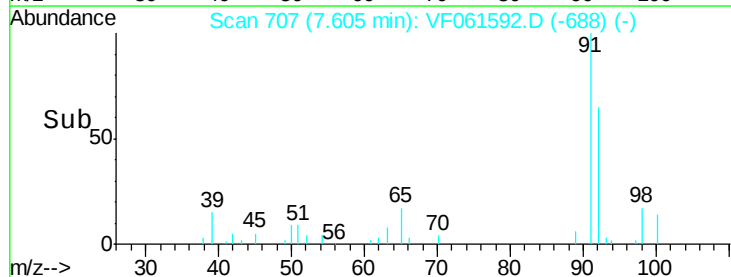
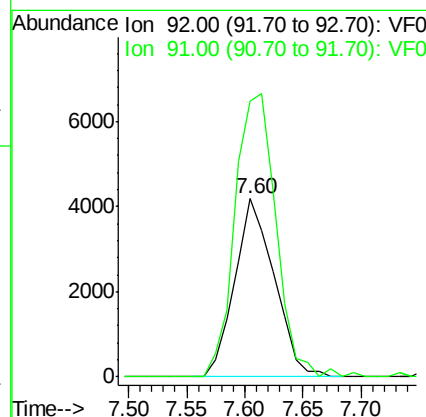
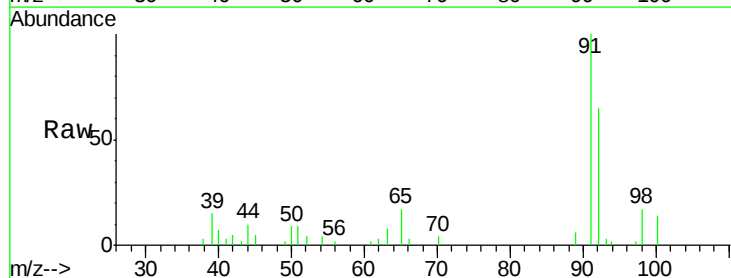
Instrument :
MSVOA_F
ClientSampled :

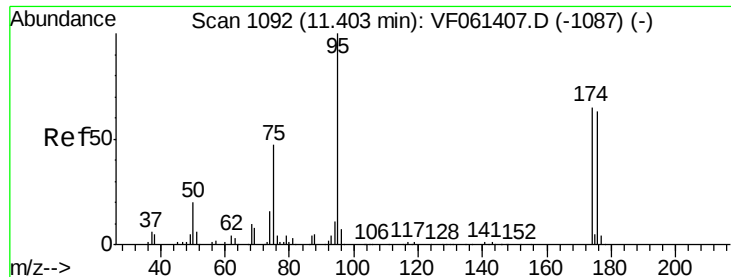
Tot Ion: 98 Resp: 295476
Ion Ratio Lower Upper
98 100
100 68.4 55.6 83.4



#52
Toluene
Concen: 1.574 ug/l
RT: 7.60 min Scan# 707
Delta R.T. -0.01 min
Lab File: VF061592.D
Acq: 11 Feb 2019 18:07

Tgt Ion: 92 Resp: 9832
Ion Ratio Lower Upper
92 100
91 154.9 131.2 196.8





#62

4-Bromofluorobenzene

Concen: 41.567 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.01 min

Lab File: VF061592.D

Acq: 11 Feb 2019 18:07

Instrument :

MSVOA_F

ClientSampleId :

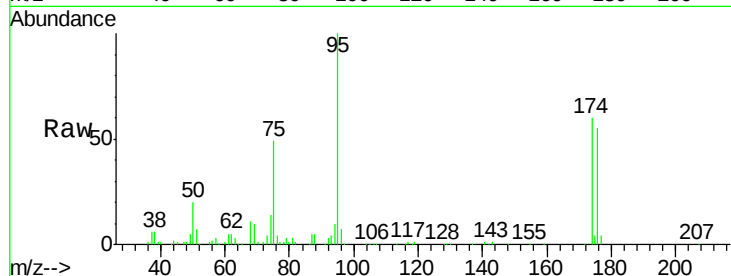
Tot Ion: 95 Resp: 154416

Ion Ratio Lower Upper

95 100

174 59.6 0.0 130.4

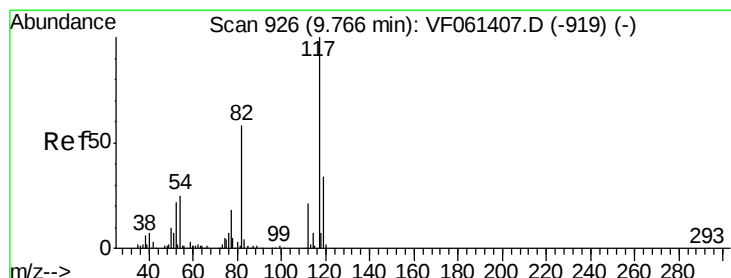
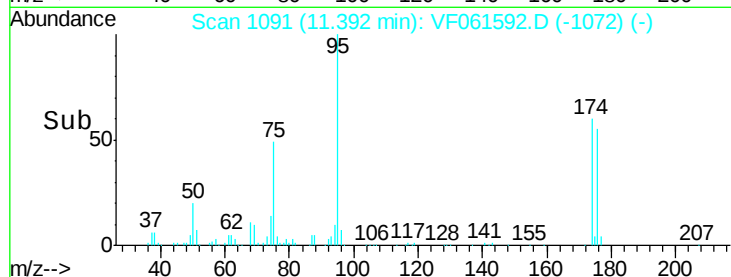
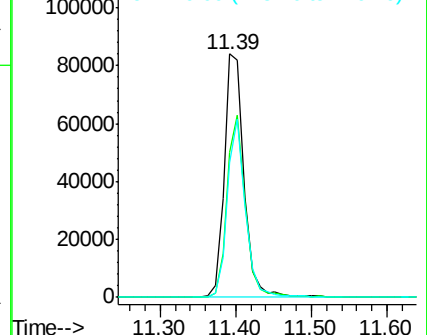
176 55.2 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF061407.D (-1087) (-)

Ion 174.00 (173.70 to 174.70): VF061407.D (-1087) (-)

Ion 176.00 (175.70 to 176.70): VF061407.D (-1087) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.75 min Scan# 925

Delta R.T. -0.01 min

Lab File: VF061592.D

Acq: 11 Feb 2019 18:07

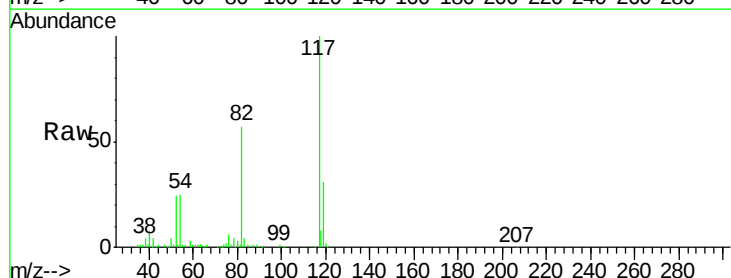
Tgt Ion: 117 Resp: 321485

Ion Ratio Lower Upper

117 100

82 57.1 46.4 69.6

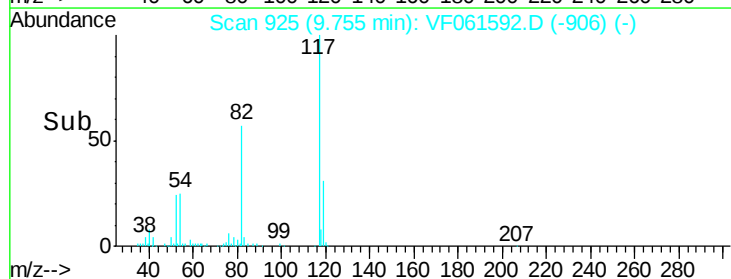
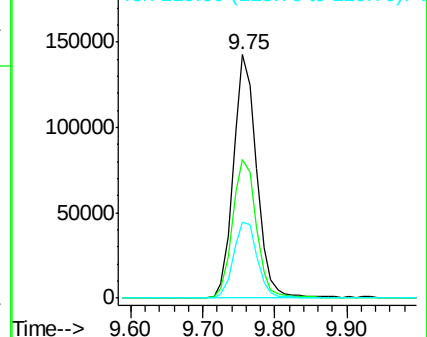
119 31.3 27.2 40.8

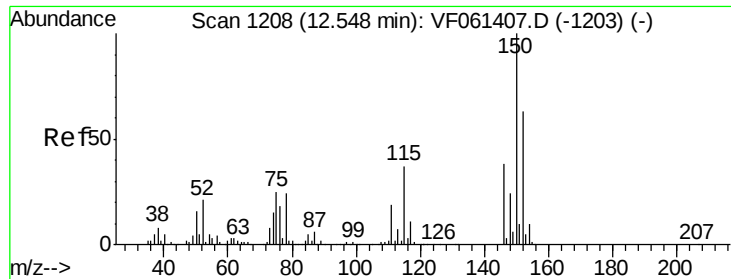


Abundance Ion 117.00 (116.70 to 117.70): VF061407.D (-919) (-)

Ion 82.00 (81.70 to 82.70): VF061407.D (-919) (-)

Ion 119.00 (118.70 to 119.70): VF061407.D (-919) (-)



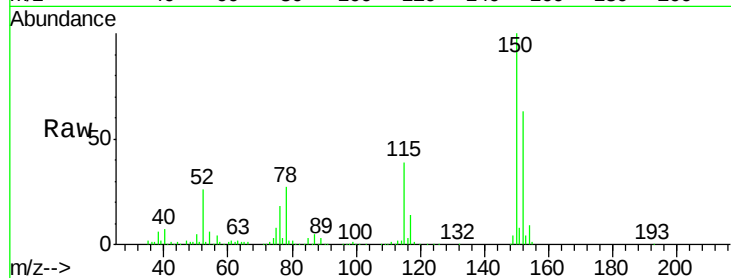


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1207
Delta R.T. -0.01 min
Lab File: VF061592.D
Acq: 11 Feb 2019 18:07

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	61.6	30.0	90.0
150	157.6	0.0	321.4



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V

